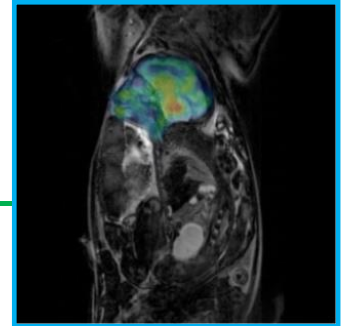


Frontiers in Addiction Research and Pregnancy

Magee-Womens Research Institute

Pittsburgh, PA

January 24-27, 2022



Monday, January 24, 2022

9:00 Welcome to Course and Opening Remarks
Gerald Schatten, PhD-University of Pittsburgh, Pittsburgh, PA
Mike Kuhar, PhD-Emory University School of Medicine, Atlanta, GA

9:15 Introductions from Trainees & Faculty

10:15 **Lecture:** *ABCs of Opioids*
Mike Kuhar, PhD-Emory University School of Medicine, Atlanta, GA

Morning Theme: Pharmacokinetics

11:15 **Lecture:** *Pharmacokinetics of Substance of Abuse*
Raman Venkataramanan, PhD-University of Pittsburgh, Pittsburgh, PA

11:45 Break

11:45 **Lecture:** *Pharmacology and Pharmacokinetics of Drugs in Pregnancy*
Steve Caritis, MD-University of Pittsburgh, Pittsburgh, PA

12:15 **Lecture:** *Pharmacological Treatment of Perinatal Opioid Use Disorder*
Constance Guille, MD-Medical University of South Carolina, Charleston, SC

12:45 Lunch (provided)

Afternoon Theme: Neonatal Abstinence Syndrome/Fetal Alcohol Effect

1:45 **Lecture:** *Detection of Drug-Exposed Newborns*
Gwendolyn McMillin, PhD-University of Utah School of Medicine, Salt Lake City, UT

2:15 **Lecture:** *Caring for the Infant with NAS*
Carla Saunders, DNP, APRN, NNP-B-Transformational Wellness Initiative,
Knoxville, TN

2:45 **Lecture:** *Fetal Alcohol Spectrum Disorder: Prevalence and Presentation*
Shannon Lange, PhD-Center for Addiction and Mental Health, Toronto, CAN

Tuesday, January 25, 2022

Morning Theme: Clinical Considerations of Substance Abuse

9:00 **Lecture:** *Perinatal Substance Use and Sustained Abstinence: The Role of Progesterone*
Ariadna Forray, MD-Yale School of Medicine, New Haven, CT

9:30 **Lecture:** *Understanding and Addressing Marijuana Use During Pregnancy*
Judy Chang, MD, MPH-University of Pittsburgh, Pittsburgh, PA

10:00 Break

10:15 **Panel Discussion:** *Drug Use on Spermatogenesis*
Susan Murphy, PhD-Duke University School of Medicine, Durham, NC
Charles Easley, PhD-University of Georgia, Athens, GA

11:15 **Lecture:** *Mamas, Munchkins and Methamphetamines*
Marcela Smid, MD, MS, MA-University of Utah Health, Salt Lake City, UT

11:45 Lunch (provided)

Afternoon Theme: Long Term Effect of Drug Use/Genetics and Epigenetics/Sex Differences

12:45 **Panel Discussion:** *Long-term effects of prenatal marijuana exposure: Preclinical and clinical findings*
Gregg Stanwood, PhD-Florida State University, Tallahassee, FL
Gale Richardson, PhD-University of Pittsburgh, Pittsburgh, PA

1:45 **Lecture:** *Compassion & Behavioral Science to Improve Substance Use Disorder Treatment*
Dennis Hand, PhD-Thomas Jefferson University, Philadelphia, PA

2:15 Break

2:30 **Lecture:** *Neural Mechanisms Mediating Sex Differences in Responses to Addictive Drugs*
Cynthia Kuhn, PhD-Duke University Medical Center, Durham, NC

Wednesday, January 26, 2022

Morning Theme: Confounders/Neuroimaging/Addiction Mechanisms

9:00 **Lecture:** *Hugs, buds, and other drugs: Oxytocin and addictive disorders*
Aimee McRae-Clark, PharmD-Medical University of South Carolina,
Charleston, SC

- 9:30 **Lecture:** *Can neuroimaging help combat the opioid epidemic?*
Sarah Yip, PhD-Yale School of Medicine, New Haven, CT
- 10:00 **Lecture:** *Discovering Ways to Help Women with Opioid Use Disorder During the Postpartum Period*
Caitlin Martin, MD, MPH-Virginia Commonwealth University, Richmond, VA
- 10:30 Break
- 10:45 **Lecture:** *Modeling Prenatal Opioid Exposure using I.V. Self-Administration*
Elizabeth Byrnes, PhD-Tufts University, Cummings School of Veterinary Medicine, Boston, MA
- 11:15 **Lecture:** *Actin-Regulating Genes Regulating Alcohol Action*
Adrian Rothenfluh, PhD, MS-University of Utah School of Medicine, Salt Lake City, UT
- 11:45 Lunch (provided)
- 12:45 **Lab Demo:** Actin imaging Ca⁺⁺ & cytoskeletal imaging
Adrian Rothenfluh
- 3:30 Break
- 3:45 Pair-Up Opportunities and Cytoskeletal Imaging with George Langford

Thursday, January 27, 2022

Theme: Imposter Syndrome/Mentoring/Rigor & Transparency/Career Strategies & IDPs

- 9:00 **Lecture:** *Impostor Syndrome*
Jennifer Villwock, MD-University of Kansas Medical Center, Kansas City, KS
- 9:30 **Mentoring Workshop:** *Mentoring and networking: how to make it work*
Winston Thompson, PhD-Morehouse School of Medicine, Atlanta, GA
- 10:30 Break
- 10:45 **Discussion:** *Creating Effective Individual Development Plans/Career Strategies*
Winston Thompson, PhD-Morehouse School of Medicine, Atlanta, GA
- 11:45 Lunch (provided)
- 12:45 **Lecture:** *Moving Beyond Miserable Virtual Reality*
Gerald Schatten, PhD-University of Pittsburgh, Pittsburgh, PA

1:15 **Closing Remarks**

1:30 Ending movie: This Might Hurt [optional]
